

In the claims

Please replace originally filed claims with the claims indicated below:

Patent Claims

1. (currently amended) A method for cultivating microorganisms of the order genus *Thraustochytriales*, characterized in that the microorganisms are cultivated in a fermentation medium containing CaCO₃ as an essential means for ~~with no more than a minor addition of other~~ pH value [-]stabilization, ~~ing where content of means apart from CaCO₃,~~ ~~preferably without adding other pH-stabilizing means apart from CaCO₃~~ in said fermentation medium is 3 to 15 g/l.

2. (previously presented) The method according to claim 1, wherein the microorganisms bring forth a production of more than 25 wt% oil per unit of weight of dry biomass.

3. (currently amended) The method according to claim 1, wherein the microorganisms bring forth a production of more than 10 wt% docosahexaenoic acid (DHA) ~~DHA~~ per unit of weight of dry biomass.

4. (currently amended) The method according to claim 1, wherein the microorganisms bring forth a production of more than 1% docosapentaenoic acid (DPA) ~~DPA~~ per dry biomass.

5. (currently amended) The method according to claim 1, wherein ± 4 g/L to $\pm 5 \underline{12}$ g/L CaCO_3 are added to the medium.

6. (previously presented) The method according to claim 1, characterized in that the medium comprises glucose, corn steep liquor, magnesium chloride, calcium chloride, calcium carbonate, sodium sulfate, ammonium sulfate and potassium hydrogen phosphate.

7. (previously presented) The method according to claim 1, characterized in that the medium has a pH value of between 3 and 10.

8. (previously presented) The method according to claim 1, characterized in that the cultivation takes place between 10°C and 40°C.

9. (previously presented) The method according to claim 1, characterized in that the cultivation takes place for 1 to 10 days.

10. (previously presented) The method according to claim 1, characterized in that the microorganism belongs to the genus *Schizochytrium*, *Thraustochytrium* or *Ulkenia*.

11. (previously presented) The method according to claim 10, characterized in that the microorganism is *Ulkenia* sp. SAM 2179.

12. (previously presented) The method according to claim 10, characterized in that the microorganism is *Schizochytrium* sp. SR 21.

13. (currently amended) Utilization of a culture medium comprising exclusively CaCO_3 as pH value stabilization means for cultivating microorganisms of the order *Thraustochytriales*, where content of CaCO_3 in said culture medium is 3 to 15 g/l.

14. (withdrawn) Oil having a content of at least 20 area(%) DHA, produced using a method according to claim 1 and subsequent isolation of the oil from the culture broth and/or the biomass available therein.

15. (withdrawn) Oil having a content of at least 3 area(%) DPA, produced using a method according to claim 1 and subsequent isolation of the oil from the culture broth and/or the biomass available therein.

16. (withdrawn) DHA of at least 90 % purity, produced using a method according to claim 1 and subsequent isolation of the DHA from the culture broth and/or the biomass available therein.

17. (withdrawn) DPA of at least 90 % purity, produced using a method according to claim 1 and subsequent isolation of the DPA from the culture broth and/or the biomass available therein.

18. (withdrawn) Biomass obtainable by means of a method according to claim 1 and subsequent separation of the biomass from the culture broth.

19. (withdrawn) Animal feed comprising biomass according to claim 18.

20. (withdrawn) Foodstuff for human nutrition comprising biomass according to claim 18.